1-2003

MICB 413.01: Medical Bacteriology and Mycology Laboratory

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MICB 413 Medical Bacteriology and Mycology Laboratory, Spring Semester, 2003

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Date	Day	Lab Number	Lab Description
1-28	T	0	ORIENTATION AND INTRODUCTION
1-30	R	1	BREAKING RUST OFF
2-04	T	2	TRANSMISSION ROUTES
2-06	R	3	ID 2 isolates from transmission routes
2-11	T	4	Complete ID- turn in reports by next lab
2-13	R	5	GRAM + COCCI 1
2-18	T	6	GRAM + COCCI 2
2-20	R	7	ID 2 cocci isolates
2-25	T	8	Complete ID- turn in reports by next lab
2-27	R	9	AEROBIC GRAM + BACILLI 1
3-04	T	10	AEROBIC GRAM + BACILLI 2
3-06	R	11	ID 2 bacilli isolates
3-11	T	12	Complete ID- turn in reports by next lab
3-13	R	13	ENTERICS 1
3-18	T	14	ENTERICS 2
3-20	R	15	ID 2 enteric isolates/**MIDTERM EXAM**
4-01	T	16	Complete ID- turn in reports by next lab
4-03	R	17	UNKNOWNS
4-08	T	18	Continue unknowns
4-10	R	19	Continue unknowns
4-15	T	20	Complete- turn in reports by next lab
4-17	R	21	ANAEROBES 1
4-22	T	22	ANAEROBES 2
4-24	R	23	ANTIBIOTICS / DIAGNOSTIC KITS
4-29	T	24	HUMAN MYCOSES 1
5-01	R	25	HUMAN MYCOSES 1
5-06	T	26	HUMAN MYCOSES 3
5-08	R	27	**FINAL EXAM**

Grading:

Midterm exam:	100 pts	Flora unknowns (8 @ 15 pts each)	120 pts
Final exam:	100 pts	Midterm unknowns (3 @ 50 pts each)	150 pts
Notebooks: (27 @ 5 pts)	135 pts		

Total of 605 pts. Cutoff points for A,B,C, and D are 90%, 80%, 70% and 60%, respectively.

Medical Bacteriology Laboratory: Introduction

Finding a lab partner: Your first order of business will be finding a lab partner. This will be an important decision because you and your lab partner will have to work efficiently together to finish all of the labs in a timely manner. Isolates are team projects, so your grade will depend partially on your partner's performance. Each member of the team is expected to pull their own weight and it is each member's responsibility to get all observations into their personal notebook.

Attendance: Mandatory. Students with more than two unexcused absences will be required to drop the course. Labs must be experienced for you to learn from them. Also, your lab partner is depending on you.

Late Policy: 10% reduction of total points per day of tardiness.

Exams: The midterm will cover all labs up until the scheduled date. For review you should go over your lecture notes and the information sheets in this packet. It will consist of short answer, fill-in-the-blank, and matching. There will be one "discussion" answer type question. The final exam is given during finals week. It will consist of a practicum covering items that you (hopefully) learned over the course of the semester.

Lab notebook: You will keep a *bound* notebook for your observations and sketches. The notebooks *will be graded* and you will need them for future reference on your unknowns. Be aware that notebooks may be collected or viewed for grading at any time by the TA. Each lab (for example "Gram Positive Cocci") should have: 1) a heading, 2) procedures (can be referenced), 3) observations (must be current) and 4) a brief summary. There should be a table of contents and the pages of the notebook must be numbered. You are encouraged to cut and paste procedures, graphs, charts, or anything else that you might find useful into your notebook. Remember- the notebook will be your saving grace when you compile identification data.

Lab performance: Occasionally you will be asked to demonstrate certain lab procedures to the TA. For example, you may have to show a gram stain of an organism, streak an isolation plate or demonstrate aseptic technique. The purpose of this is to ensure that everyone is fully engaged in performing the labs. Don't be afraid to ask questions.

Flora isolates and unknowns: Floral isolates will be obtained and identified 4 times during the course of the semester. These are team projects. In addition, each student will be given an unknown culture mixture of 3 bacteria about half way into the course and will identify these bacteria to the species level. **Every student** will complete an "unknown report" (see last page of this packet) detailing observations and tests used to identify the bacteria. A flowchart must be included. Be sure and turn in the reports on the due dates.

Text:

A Photographic Atlas for the Microbiology Laboratory, Leboffe and Pierce, 2nd Ed., Morton Publishing Co., 1998. **Numbers in brackets [xx] in the FacPac refer to page numbers in this textbook**.